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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/005,264	11/12/2001	Yeon Ho Son	2598/OJ995	9381	
7590 11/30/2004			EXAMINER		
DARBY & DARBY P.C.			DABNEY, PHYLESHA LARVINIA		
805 Third Aven	ue				
New York, NY 10022			ART UNIT	PAPER NUMBER	
			2643		
			DATE MAILED: 11/20/200	DATE MAILED: 11/20/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

MW						
7		Application No.	Applicant(s)			
		10/005,264	SON, YEON HO			
	Office Action Summary	Examiner	Art Unit			
		Phylesha L Dabney	2643			
Period fo	The MAILING DATE of this communication apport Reply	ears on the cover sheet with	the correspondence address			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply y within the statutory minimum of thirty (3 vill apply and will expire SIX (6) MONTH , cause the application to become ABAN	y be timely filed 10) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on 30 Ju	<u>ıly 2004</u> .	•			
2a)[☐ This action is FINAL . 2b) ☐ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.			
Disposit	ion of Claims					
4) 🖂	Claim(s) <u>1-19</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdraw	wn from consideration.				
5)	Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>1-19</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)[Claim(s) are subject to restriction and/or	r election requirement.				
Applicati	ion Papers					
9)	The specification is objected to by the Examine	r.				
10)	The drawing(s) filed on is/are: a) acce	epted or b) objected to by	the Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance	. See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correct					
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached C	office Action or form PTO-152.			
Priority ι	under 35 U.S.C. § 119		a.			
12)🖂	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 1	19(a)-(d) or (f)			
	☑ All b)☐ Some * c)☐ None of:	process of the control of the contro	(
,	1.⊠ Certified copies of the priority documents	s have been received.				
	2. Certified copies of the priority documents		lication No.			
,	3. Copies of the certified copies of the prior					
	application from the International Bureau		J			
* 5	See the attached detailed Office action for a list	of the certified copies not red	ceived.			
Attachmon	tie)					
Attachment 1) Notic	e of References Cited (PTO-892)	4) 🔲 Interview Sum	mary (PTO-413)			
	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/N	fail Date			
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		mal Patent Application (PTO-152)			
Pape	r No(s)/Mail Date	6) Other:				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 10/005,264

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DETAILED ACTION

This action is in response to the Terminal Disclaimer and Remarks filed on 30 July 2004 in which claims 1-19 are pending.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-19 rejected under the judicially created doctrine of obviousness-type double -13 patenting as being unpatentable over claims 1 of U.S. Patent No. 6,560,347. Although the conflicting claims are not identical, they are not patentably distinct from each other because

Regarding claims 1-19, Chung discloses a multi-function actuator having a case, a vibrating coil installed in the case, a diaphragm, voice coil fixedly installed in the bottom of the diaphragm, a vertically magnetized magnet, a yoke, a weight, and suspension (spring). Chung does not teach having a notch filter (claim 1) or a high-pass filter (claim 5). However, Ray Alden ("Advanced Speaker Systems", pages 71-86) teaches that it is known to include filters, such as high pass, low pass, notch (specific type of bandpass) which utilize resistors, capacitors, and inductors in speaker actuating circuits for separating the frequency response into different

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frequency levels, i.e. woofer level, tweeter level, or midrange level. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include a filters, such as notch or high pass, in the invention of Chung for providing a frequency separation circuit (cross-over network) to the speaker system.

Furthermore, the combination of Chung and Alden does not teach the filter composed of resistor(s), capacitor(s), and/or inductor(s) in series, parallel, T-type, L-type, or π -type configurations. However, the examiner takes official notice that it is known in electronic theory to implement filter design in any of the above configurations for damping resonance peaks produced at the different frequency levels. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use any of the above filter configurations in the invention of Chung and Alden, to damp desired resonance peaks.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phylesha L Dabney whose telephone number is 703-306-5415.

The examiner can normally be reached on Mondays, Tuesdays, Wednesdays, Fridays 8:30-4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis Kuntz can be reached on 703-305-4708. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

November 23, 2004

PLD

SUPERVISORY PATENT EXAMINER
TECHNOLOGY - CO.